

| | | |
|----|---|-----|
| | 1 | 50 |
| 5 | 1 HHNGTNGTMM QYFEWHL PND GNHWNRL RDD ASNLRNR GIT AIWIPPAWKG | |
| | 2 ..NGTNGTMM QYFEWYL PND GNHWNRL RSD ASNLKDKG IS AVWIPPAWKG | |
| | 3 HHNGTNGTMM QYFEWYL PND GNHWNRL RDD AANLKSKG IT AVWIPPAWKG | |
| | 4VNGTLM QYFEWYTPND GQHWKRLQND AEHLSDIG IT AVWIPPAWKG | |
| | 5 ..ANLNNGTLM QYFEWYMPND GQHWRRRLQND SAYLAEHG IT AVWIPPAWKG | |
| | 6 .AAPFNGTMM QYFEWYL PDD GTLWTKVANE ANNLSL LG IT ALWLPPAYKG | |
| 10 | | |
| | 51 | 100 |
| 15 | 1 TSQNDVGYGA YDLYDLGEFN QKGTVRTKYG TRSQLESAIH ALKNNGVQVY | |
| | 2 ASQNDVGYGA YDLYDLGEFN QKGTVRTKYG TRNQLQAAVN ALKSNGI QVY | |
| | 3 TSQNDVGYGA YDLYDLGEFN QKGTVRTKYG TRNQLQAAVT SLKNNGI QVY | |
| | 4 LSQSDNGYGP YDLYDLGEFQ QKGTVRTKYG TKSELQDAIG SLHSRNVQVY | |
| | 5 TSQADVGYGA YDLYDLGEFH QKGTVRTKYG TKGELOSAIK SLHSRDINVY | |
| | 6 TSRSDVGYGV YDLYDLGEFN QKGTVRTKYG TKAQYLQAIQ AAHAAGMQVY | |
| | 101 | 150 |
| 20 | 1 GDVVMNHKG G ADATENV LAV EVNPNNRNQE ISGDTIEAW TKFD PGRGN | |
| | 2 GDVVMNHKG G ADATEMVR AV EVNPNNRNQE VSGEY TIEAW TKFD PGRGN | |
| | 3 GDVVMNHKG G ADGTEIVNAV EVNRSNRNQE TSGEY AIEAW TKFD PGRGN | |
| | 4 GDVVLNHKG G ADATEDVTAV EVNPANRNQE TSEEQIKAW TDFRFPGRGN | |
| | 5 GDVVINHKGG ADATEDVTAV EVDPADRN RV ISGEHLIKAW THFHFPGRGS | |
| | 6 ADVVFDHKGG ADGTEWVD AV EVNPSDRNQE ISGTYQIQAW TKFD PGRGN | |
| | 151 | 200 |
| 30 | 1 TYSDFKWRWY HFDGVDWDQS RQFQNRIYKF RGDGKA WDW E VDSENGNYDY | |
| | 2 THSNFKWRWY HFDGVDWDQS RKLNRIYKF RGDGKGWDWE VDTENGNYDY | |
| | 3 NHSSFKWRWY HFDGTDWDQS RQLQNRIYKF RGTGKA WDW E VDTENGNYDY | |
| | 4 TYSDFKWHWY HFDGADWDES RKL.SRIFKF RGEGKA WDW E VSENGNYDY | |
| | 5 TYSDFKWHWY HFDGTDWDDES RKL.NRIYKF ..QGKA WDW E VSNENGNYDY | |
| | 6 TYSSFKWRWY HFDGVDWDES RKL.SRIYKF RGIGKA WDW E VDTENGNYDY | |

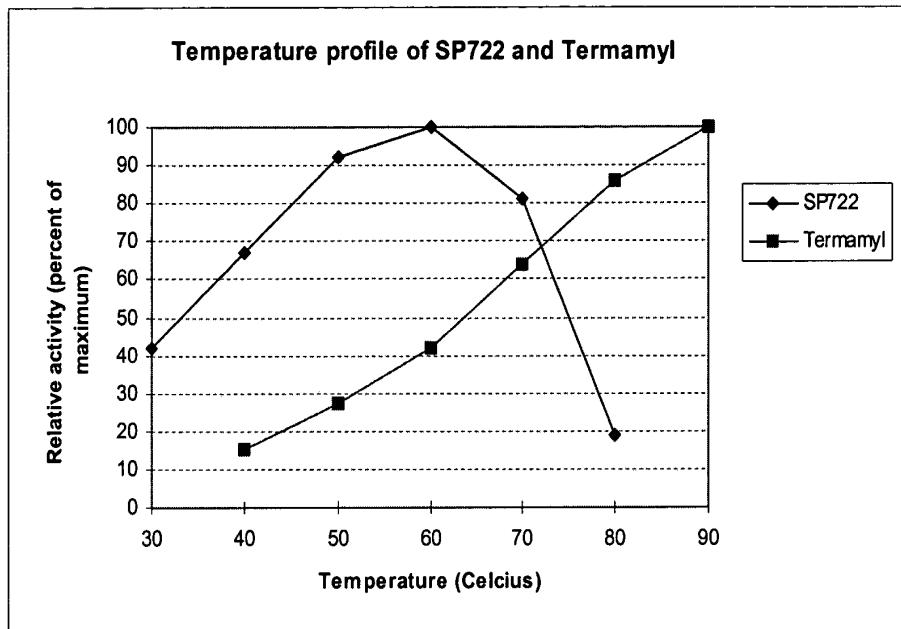
| | | |
|----|--|-----|
| 5 | 201 | 250 |
| 1 | LMYADVDMH PEVVNELRRW GEWYTNTLNL DGFRIDAVKH IKYSFTRDWL | |
| 2 | LMYADIDMDH PEVVNELRNW GVVYTNTLGL DGFRIDAVKH IKYSFTRDWS | |
| 3 | LMYADVDMH PEVIHELRNW GVVYTNTLNL DGFRIDAVKH IKYSFTRDWL | |
| 4 | LMYADVDYDH PDVVAETKKW GIWYANELSL DGFRIDAACKH IKFSFLRDWV | |
| 10 | 5 LMYADIDYDH PDVAAEIKRW GTWYANELQL DGFRIDAVKH IKFSFLRDWV | |
| 6 | LMYADLDMH PEVVTELKNW GKWYVNTTNI DGFRIDAVKH IKFSFFPDWL | |
| | 251 | 300 |
| 15 | 1 THVRNATGKE MFAVAEWFKN DLGALENYLN KTNWNHSVFD VPLHYNLYNA | |
| 2 | IHVRSATGKN MFAVAEWFKN DLGAIENYLN KTNWNHSVFD VPLHYNFYNA | |
| 3 | THVRNTTGKP MFAVAEWFKN DLGAIENYLN KTSWNHSAFD VPLHYNLYNA | |
| 4 | QAVRQATGKE MFTVAEYWQN NAGKLENYLN KTSFNQSVFD VPLHFNLQAA | |
| 5 | NHVREKTGKE MFTVAEYWQN DLGALENYLN KTNFNHSVFD VPLHYQFHAA | |
| 6 | SYVRSQTGKP LFTVGEYWSY DINKLHNYIT KTDGTMISLFD APLHNKFYTA | |
| 20 | 301 | 350 |
| 1 | SNSGGNYDMA KLLNGTVVQK HPMHAVTFVD NHDSQPGESL ESFVQEWFKP | |
| 2 | SKSGGNYDMR QIFNGTVVQR HPMHAVTFVD NHDSQPEEAL ESFVEEWFKP | |
| 3 | SNSGGYYDMR NILNGSVVQK HPTHAVTFVD NHDSQPGGEAL ESFVQQWFKP | |
| 25 | 4 SSQGGGYDMR RLLDGTVVSR HPEKAVTFVE NHDTQPGQSL ESTVQTWFKP | |
| 5 | STQGGGYDMR KLLNGTVVSK HPLKSVTFVD NHDTQPGQSL ESTVQTWFKP | |
| 6 | SKSGGAFDMR TLMTNTLMKD QPTLAVTFVD NHDTEPGQAL QSWVDPWFKP | |
| | 351 | 400 |
| 30 | 1 LAYALILTRE QGYPYVYGD YYGIPTHS.. . VPAMKAKID PILEARQNFA | |
| 2 | LAYALTLTRE QGYPYVYGD YYGIPTHG.. . VPAMKSKID PILEARQKYA | |
| 3 | LAYALVLTRE QGYPYVYGD YYGIPTHG.. . VPAMKSKID PLLQARQTFA | |
| 4 | LAYAFILTRE SGYPQVFYGD MYGTKGTSRK EIPSLKDNIE PILKARKEYA | |
| 5 | LAYAFILTRE SGYPQVFYGD MYGTKGDSQR EIPALKHKIE PILKARKQYA | |
| 35 | 6 LAYAFILTRQ EGYPYVYGD YYGIPQYN.. . IPSLKSID PLIARRDYA | |
| | 401 | 450 |
| 1 | YGTQHDYFDH HNIIGWTREG NTTHPNSGLA TIMSDGPGGE KWMYVGQNKAYGRQN..... | |
| 2 | YGTQHDYFDH HDIIGWTREG NSSHPNSGLA TIMSDGPGGN KWMYVGKNA | |
| 40 | 3 YGPQHDYIDH PDVIGWTREG DSSAAKSGLA ALITDGPBGS KRMYAGLKNA | |
| 4 | YGAQHDYFDH HDIVGWTREG DSSVANSGLA ALITDGPBGA KRMYVGRQNA | |
| 5 | YGTQHDYLDH SDIIGWTREG GTEKPGSGLA ALITDGPBGS KWMYVGKQHA | |

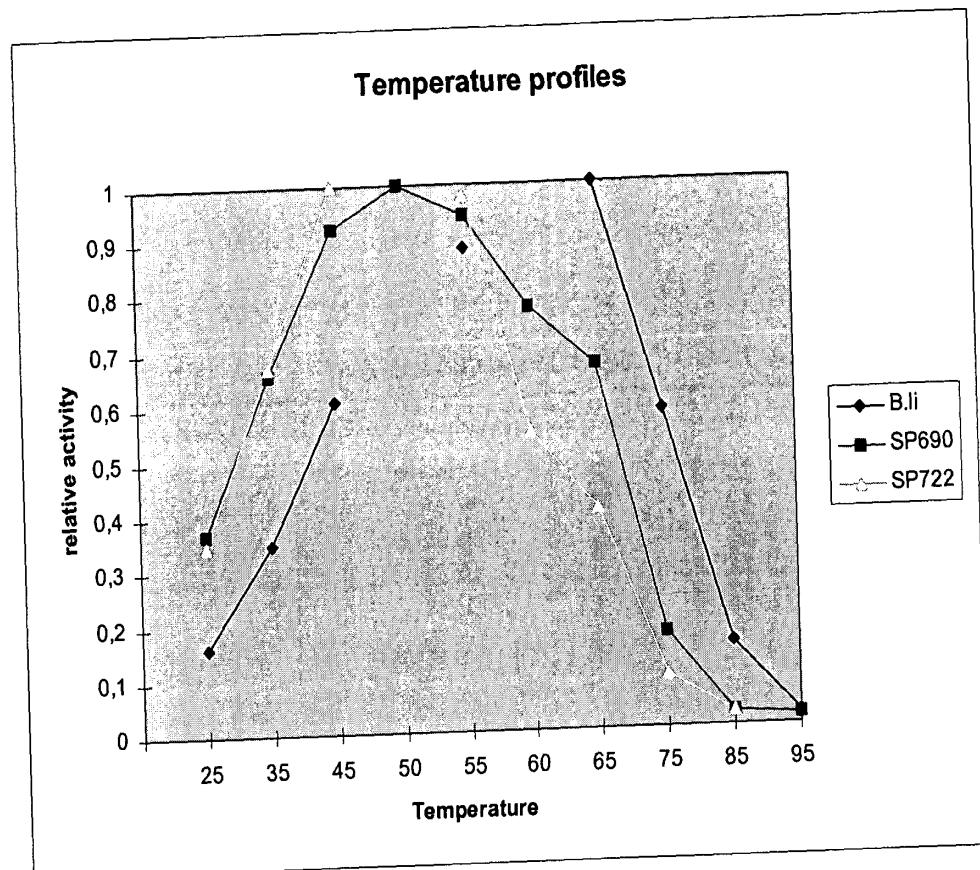
| | | | | | | | |
|----|---|------------|-------------|-------------|------------|------------|-----|
| 5 | 1 | GQVWHDITGN | KPGTVTINAD | GWANFSVNGG | SVSIWVKR.. | | 500 |
| | 2 | | | | | | |
| | 3 | GQVWRDITGN | RTGTVTINAD | GWGNFSVNGG | SVSVWVKQ.. | | |
| | 4 | GETWYDITGN | RSDTVVKIGSD | GWGEFHVNNDG | SVSIYVQ.. | | |
| | 5 | GETWHDITGN | RSEPVVINSE | GWGEFHVNNGG | SVSIYVQR.. | | |
| 10 | 6 | GKVFYDLTGN | RSDTVТИNSD | GWGEFKVNNG | SVSVWVPRKT | TVSTIARPIT | |

501 519
1
2
3
4
5
6 TRPWTGEFVR WTEPRLVAW

20

Figure 1 (c)





5

Figure 3

| | | |
|----|--|-----|
| 5 | 1 MKFVLLSLI GFCWAQYDPH TSDG.RTAIV HLFERWVDI AKECERYLAP 2LLSLI GFCWAQYDPH TADG.RTAIV HLFERWADI AKECERYLAP 3 QYAPQ TQSG.RTDIV HLFERWVDI ALECERYLGP 4 MKFFLLLFTI GFCWAQYSPN TQQG.RTSIV HLFERWVDI ALECERYLAP 5 MKLNKIIITA GLSLGLLPS IATATPTTFV HLFERWNQDV AQECEQYLGP | 50 |
| 10 | 1 KFGGVQVSP PNENVVVHNP SRPWWERYQP ISYKICTRSG NEDEFRDMVT 2 KFGGVQVSP PNENIIINNP SRPWWERYQP ISYKICSRSG NENEFKDMVT 3 KFGGVQVSP PNENVVVTNP SRPWWERYQP VSYKLCTRSG NENEFRDMVT 4 KFGGVQVSP PNENVAIYNP FRPWWERYQP VSYKLCTRSG NEDEFRNMVT 5 KGYAAVQVSP PNEHI....T GSQWWTRYQP VSYELQSRGG NRAQFIDMVN | 100 |
| 15 | 1 RCNNVGRIY VDAVINHMCG AGNPAGTSST CGSYLNPNNR EFPAPVYSAW 2 RCNNVGRIY VDAVINHMCG SGNSAGTHST CGSYFNPNNR EFSAVPYSW 3 RCNNVGRIY VDAVINHMCG SGAAAGTGT CGSYCNPGNR EFPAPVYSAW 4 RCNNVGRIY VDAVINHMCG NAVSAGTSST CGSYFNPGSR DFPAVYPSGW 5 RCSAAGVDIY VDTLINHM... AAGSGTGTA GNSF...GNK SFPI..YSPQ | 150 |
| 20 | 1 DFNDNKCN.. GEIDNYNDA YQVRNCRLTG LLDLALEKDY VRTKVADYMN 2 YFNDNKCN.. GEINNYNDA NQVRNCRLSG LLDLALDKDY VRTKVADYMN 3 DFNDGKCKTA SGIESYNDP YQVRDCQLVG LLDLALEKDY VRSMIADYLN 4 DFNDGKCKTG SGDIENYNDT TQVRDCRLTG LLDLALEKDY VRSKIAEYMN 5 DFHES.CTIN NSDYG..NDR YRVQNCELVG LADLDTASNY VQNTIAAYIN | 200 |
| 25 | 1 HLIDIGVAGF RLDAAKHMWP RDIKAVLDKL HNLNTKWFSQ GSRPFIFQEV 2 NLIDIGVAGF RLDAAKHMWP GDIKAVLDKL HNLNTKWFSQ GSRPFIFQEV 3 KLIDIGVAGF RLDASKHMWP GDIKAVLDKL HNLNTNWFPN GSRPFIFQEV 4 HLIDIGVAGF RLDASKHMWP GDIKAILDKL HNLNSNWFPN GSKPFIYQEV 5 DLQAIGVKGF RFDASKHVAA SDIQSLMAKV N..... GSPVVFQEV | 250 |
| 30 | 1 IDLGGEAIKG SEYFGNGRVT EFKYGAKLGT VIRKWNGEKM SYLKNWGEgw 2 IDLGGEAIKG SEYFGNGRVT EFKYGAKLGT VIRKWNGEKM SYLKNWGEgw 3 IDLGGEAIKS GEYFSNGRVT EFKYGAKLGT VVRKWSGEKM SYLKNWGEgw 4 IDLGGEPIKS SDYFGNGRVT EFKYGAKLGT VIRKWNGEKM SYLKNWGEgw 5 IDQGGEAVGA SEYLSTGLVT EFKYSTELGN TFR...NGSL AWLSNFGEGW | 300 |
| 35 | 1 GLVPSDRALV FVDNHDNQRG HGAGGSSILT FWDARMYKMA VGFMLAHPYG 2 GFVPTDRALV FVDNHDNQRG HGAGGASILT FWDARMYKMA VGFMLAHPYG 3 GFMPSDRALV FVDNHDNQRG HGAGGSSILT FWDAYRKLVA VGFMLAHPYG 4 GFVPSDRALV FVDNHDNQRG HGAGGASILT FWDARLYKMA VGFMLAHPYG 5 GFMPSSSAVV FVDNHDNQRG HGGAG.NVIT FEDGRLYDLA NVFMLAYPYG | 350 |
| 40 | 1 FTRVMSSYRW NRNFQNGKDQ NDWIGPPNNN GVTKEVTINA DTTCGNDWVC 2 FTRVMSSYRR TRNFQNGKDV NDWIGPPNNN GVTKEVTINP DTTCGNDWVC 3 FTRVMSSYRW ARNFVNGEDV NDWIGPPNNN GVIKEVTINA DTTCGNDWVC 4 FTRVMSSYRW PRQFQNGNDV NDWVGPPNNN GVIKEVTINP DTTCGNDWVC 5 YPKVMSSY... DFHGDTDA GGPNVPVHNN GNLE..... CFASNWKC | 400 |
| 45 | 1 301 | 301 |
| 50 | 1 GLVPSDRALV FVDNHDNQRG HGAGGSSILT FWDARMYKMA VGFMLAHPYG 2 GFVPTDRALV FVDNHDNQRG HGAGGASILT FWDARMYKMA VGFMLAHPYG 3 GFMPSDRALV FVDNHDNQRG HGAGGSSILT FWDAYRKLVA VGFMLAHPYG 4 GFVPSDRALV FVDNHDNQRG HGAGGASILT FWDARLYKMA VGFMLAHPYG 5 GFMPSSSAVV FVDNHDNQRG HGGAG.NVIT FEDGRLYDLA NVFMLAYPYG | 350 |
| 55 | 1 FTRVMSSYRW NRNFQNGKDQ NDWIGPPNNN GVTKEVTINA DTTCGNDWVC 2 FTRVMSSYRR TRNFQNGKDV NDWIGPPNNN GVTKEVTINP DTTCGNDWVC 3 FTRVMSSYRW ARNFVNGEDV NDWIGPPNNN GVIKEVTINA DTTCGNDWVC 4 FTRVMSSYRW PRQFQNGNDV NDWVGPPNNN GVIKEVTINP DTTCGNDWVC 5 YPKVMSSY... DFHGDTDA GGPNVPVHNN GNLE..... CFASNWKC | 400 |
| 60 | Fig. 4 (a) | |

| | | |
|----|---|-----|
| | 401 | 450 |
| 5 | 1 EHRWRQIRNM VAFRNVVNGQ .PFSNWWDDNN SNQVAFSRGN RGFIVFNNDD | |
| | 2 EHRWRQIRNM VAFRNVVNGQ .PFANWWDNG SNQVAFSRGN RGFIVFNNDD | |
| | 3 EHRWREIRNM VWFRRNVVDGE .PFANWWDNG SNQVAFGRGN RGFIVFNNDD | |
| | 4 EHRWRQIRNM VIFRNVVDGQ .PFTNWYDNG SNQVAFGRGN RGFIVFNNDD | |
| | 5 EHRWSYIAGG VDFRNNTADN WAVTNWWDNT NNQISFGRGS SGHMAINDED | |
| 10 | 451 | |
| | 1 WALSATLQTG LPAGTYCDVI SGDKVDG..N CTGLRVNVGS DGKAHFSISN | 500 |
| | 2 WALSSTLQTG LPAGTYCDVI SGDKVNG..N CTGLKVNNGS DGKAHFSISN | |
| | 3 WQLSSTLQTG LPAGTYCDVI SGDKVGN..S CTGIKVYVSS DGKAQFSISN | |
| 15 | 4 WSFSSTLQTG LPAGTYCDVI SGDKING..N CTGIKIYVSD DGKAHFSISN | |
| | 5 STLTATVQTD MASGQYCNVL KGELSADAKS CSGEVITVNS DGTINLNIGA | |
| | 501 | |
| 20 | 1 SAEDPFIAIH ADSKL..... . | 521 |
| | 2 SAEDPFIAIH ADSKL..... . | |
| | 3 SAEDPFIAIH AESKL..... . | |
| | 4 SAEDPFIAIH AESKL..... . | |
| | 5 WDA...MAIH KNAKLNTSSA S | |

Fig. 4 (b)